		Future Flight De	esian		
		2010 Scienc			
		Academic Content S			
Ohio Science					
Grade 5					
Activity/Lesson	State	Standards			
Aircraft Decision			Movement can be measured by speed. The speed of an object is calculated by		
Aircraft Design Problem	ОН	SCI.5.PS.1.1.a	determining the distance (d) traveled in a period of time (t).		
Aircraft Design Problem	ОН	SCI.5.PS.1.1.b	Earth pulls down on all objects with gravitational force. Weight is a measure of the gravitational force between an object and the Earth. The weight of the object and amount of force applied affect the speed of the object.		
		Forton Filel (D			
Future Flight Design					
		2010 Scienc			
01 . 0 .	1	Academic Content S	standards		
Ohio Science					
Grade 6					
Activity/Lesson	State	Standards			
Aircraft Design Problem	ОН	SCI.6.PS.1.1.a	Each atom takes up space, has mass and is in constant motion. Mass is the amount of matter in an object.		
Aircraft Design Problem	ОН	SCI 6 PS 1 2 2	Atoms and molecules are not changed in structure when a substance undergoes a change of state; the amount of motion of the atoms and molecules is changed. Thermal energy is a measure of the motion of the atoms and molecules in a substance.		
Aircraft Design	011	301.0.F 3.1.2.a	Objects and substances in motion have		
Problem	ОН	SCI.6.PS.1.3.a	•		
Aircraft Design Problem	ОН	SCI.6.PS.1.4.a	An object's position and speed can be measured and graphed as a function of time.		
Aircraft Design Problem	ОН	SCI.6.PS.1.3.b	Objects and substances can store energy as a result of its position (potential energy).		
		Future Flight De	 esign		
		2010 Scienc			
Academic Content Standards					
Ohio Science					
Grade 8					
Activity/Lesson	State	Standards			
Aircraft Design	ОН	SCI.8.PS.1.2.a	The motion of an object is always measured with respect to a reference point.		

			Forces can be added. The net force on an
			object is the sum of all of the forces acting
			on the object. The net force acting on an
Aircraft Design			object can change the object's direction
Problem	OH	SCI.8.PS.1.2.b	and/or speed.
			When the net force is greater than zero, the
			object's speed and/or direction will change.
			When the net force is zero, the object
Aircraft Design			remains at rest or continues to move at a
Problem	OH	SCI.8.PS.1.2.c	constant speed in a straight line.
			Gravitational potential energy changes in a
			system as the masses or relative position(s)
			of objects are changed. Objects can have
			elastic potential energy due to their
			compression, or chemical potential energy
Aircraft Design			due to the nature and arrangement of the
Problem	ОН	SCI.8.PS.1.3.a	atoms that make up the object.